

# FOLIO

University of Alberta

15 March 1990

## Faculty studies, 1990-91

Applications for faculty studies (Cameron and Rutherford Libraries) for the 1990-91 year are now being accepted. Application forms and the guidelines for allocation are available from department offices or the office of the Chief Librarian, 5-02 Cameron Library.

*Healthy savings to be realized*

## Computing services to be unattended on statutory holidays

University Computing Systems (UCS) provides mainframe computing services for administrative, instructional and research purposes to users on and off campus. All services have been available 24 hours per day, seven days a week with the exception of Christmas and New Year's day. Operation on these days is unattended, which means that users can access and run applications, submit printing and plotting jobs and send messages. TSO and CICS application are available on MVS. Users cannot request tape mounts, pick up output or receive any other services requiring operation intervention. In cases where users have access to a printer it may be possible to route output to that device.

The number of tape mounts and the amount of printing requested

on other statutory holidays are well below normal levels for these activities. Therefore, these holidays could also be considered for unattended operation.

Jorge Beristain, UCS Operations Manager, says unattended operation on each holiday represents a savings of approximately \$2,000 per day. "In terms of administrative and instructional work such unattended operation should present few problems for 1990 because statutory holidays are scheduled outside normal high volume periods. The potential impact on researchers is not understood at this point," Beristain says.

According to Ken Porteous, Director, University Computing Systems, "computing has to be a partnership between UCS and the users which balances costs and benefits. Unattended operation for the remaining statutory holidays in 1990 represents a saving of about \$15,000. If the inconvenience experienced by users is small, the cost savings seem to justify the change."

UCS will experiment with Good Friday and Easter Monday to gain a better understanding of the impact of unattended operations on users. Tape mounting and output pickup services will be unavailable from 7 am 13 April to 7 am 14 April, and from 7 am 16 April to 7 am 17 April.

UCS is anxious to work with users to minimize the effect of the reduced service. If users foresee a significant impact on their work, they are asked to telephone Jorge Beristain at 492-2889 to explore possible solutions. □



Public Affairs

## INSIDE

- Commission for Equality and Respect on Campus conducts hearings
- Drama student from Ghana believes community drama could be a force against many of his country's afflictions
- U of A player in Electronic Training Network
- 'Activities'

## 'Welcome to the Senate office'

Prominent Edmonton businessman SA (Sandy) Mactaggart is the 14th Chancellor of the University of Alberta. Mr Mactaggart, shown here with Mary Totman, Executive Officer of Senate, succeeds Tevie Miller. The election of Mr Mactaggart took place at the 13 March meeting of Senate. He will be installed as Chancellor at Spring Convocation, Part VI, 12 June. Full details in next week's Folio.

## Office of Human Rights suggested for University

A proposal for an Office of Human Rights for the University was presented 6 March to the President's Commission for Equality and Respect on Campus.

Presenting the proposal on behalf of herself and eight other people, Ann Hall (Physical Education and Sport Studies) said, "Initially the primary focus of this office would be sexual harassment and equity. Eventually, it would also allow for future additions (for example, an ombudsperson) in areas falling under the general rubric of 'human rights'."

"Housed in the Office of Human Rights would be a director who would report directly to the President, and be responsible for overseeing all policies, programs and initiatives related to human rights on this campus," the group's brief outlined. "There would also be an employment equity officer and a sexual harassment officer, both of whom would report to the director."

"Ideally, we would like to see three full-time people in this office as well as adequate support staff,"

Dr Hall said. "However, given our current budget difficulties, we are proposing that initially .5 FTE be designated for each, director, sexual harassment officer, and employment equity officer. This would allow for greater flexibility and creativity in hiring (for example, one full-time and one .5 part-time, or three .5 part-time, or some other combination). In addition, and for the time being, we recommend a full-time administrative assistant/researcher for the office."

The proposal suggested that the individuals could work *together* in an Office of Human Rights to "maintain and develop the excellent services we already provide (especially in the sexual harassment area), and to work with existing committees such as PACSH and the President's Advisory Committee on

Employment Equity in developing new policies and programs to enhance both areas."

The proposal was developed by a group of concerned women on campus in response to a suggestion by President Paul Davenport that the sexual harassment and equity areas be combined into one office.

Sexual harassment is now under the jurisdiction of the President's Advisory Committee on Sexual Harassment (PACSH) with administrative support and case resolution provided by the Coordinator and the Chair of PACSH. The equity area is handled by the President's Advisor on Equity who has an office and a small staff. There is also the President's Advisory Committee on Employment Equity, formerly the President's Review Committee on Pay Equity.

*Continued on page three*

## Equity adviser wants to make the playing field level for all

In her submission to the President's Commission for Equality and Respect on Campus, 6 March, Doris Badir said the University must begin to study the ways in which it can become truly accessible to disadvantaged people.

"Issues like child care facilities, parental leave, interpretation services for the deaf or blind, special programs to correct deficiencies and transportation systems for the physically disabled are all areas where improvements are needed and which make the 'playing field' for equal opportunity level."

She said the University has to begin to determine what kind of a student body, academic and support work force it would like to have to support its humane and intellectual endeavors. The University must determine what changes are necessary to accomplish those goals.

Professor Badir also suggested that the Faculty of Education, Faculty of Graduate Studies and Faculté Saint-Jean develop programs to encourage students to look at differences as challenges to a more enriched society. "The appreciation of difference, the recognition of the importance of the ennoblement of the human spirit in all its forms need to become more important parts of our educational system."

She said the statistics on disadvantaged groups in the University community should be made public and a discussion should take place on why the

imbalances exist.

"The University, through the Equity Office in cooperation with the Vice-President (Academic), the Personnel Services and Staff Relations Office, the Students' Union, the AAS:UA and NASA, [should] mount an awareness campaign. Through a series of forums, open lectures, debates and workshops, all sectors of the campus [should] openly discuss stereotyping, sexism, racial discrimination, equality of opportunity, systemic discrimination, career counselling and mentoring. In other words, the true meaning of 'academe'."

In her submission titled "The Role of an Equity Office in Promoting 'Equality and Respect' on Campus," Dr Badir said studies have shown that at the U of A and other Canadian and American universities women, aboriginals, visible minorities and disabled persons are not well represented. "Representations to the Equity Office from individuals and groups, open discussions in *Folio* and in various public forums on campus have demonstrated that there is indeed an uninformed, biased portion of the population who do not understand the foundations of equality," she outlined. She suggested that education, training and research could alert the University community to discriminatory practices, attitudes, biases and lack of communication which have kept disadvantaged groups from participating fully. □

## FOLIO

Volume Twenty-seven  
Number Twenty-nine

Office of Public Affairs  
423 Athabasca Hall  
University of Alberta  
Edmonton, Alberta T6G 2E8  
(403) 492-2325

MTS - TJMH  
PROFS - ZZOPA  
FAX - 492-2997

All enquiries and  
correspondence should be  
directed to:

Ron Thomas: Editor  
Michael Robb: Assistant Editor

Public Affairs produces *Folio*  
on a regular basis for the  
staff and other interested  
persons.



University  
of  
Alberta

### Deadlines:

**Notice of coming events:** 9 am  
three weeks in advance of desired  
publication date.

**Classified advertisements:** 3 pm one  
week in advance of desired  
publication date. This date also  
serves as the deadline for  
cancellation of advertisements.  
Advertisements cost 35 cents per  
word with no discount for  
subsequent insertions. There is a  
maximum limit of 30 words and a  
minimum charge of \$1.75.  
Contributors' corrections will be  
assessed at \$1.50 for each line in  
which an insertion is made.

Advertisements cannot be accepted  
over the telephone. All  
advertisements must be paid for in  
full at the time of their submission.  
**Display advertisements:** 3 pm one  
week in advance of desired  
publication date. Contact Public  
Affairs for sizes, rates and other  
particulars.

The editor reserves the right to  
select, edit and position submitted  
copy. Views expressed in *Folio* do  
not necessarily reflect University  
policy.

*Folio* contents may be reprinted with  
acknowledgment.

ISSN 0015-5764  
Copyright 1990

## Consider interests of part-time students, commission told

Considering the approaching shortage of trained professionals in Canada, it seems appropriate to invest in students who are already part way through their degree programs, Katie Benschop, a special graduate student, told members of the President's Commission for Equality and Respect on Campus, 6 March.

Benschop said that approximately 60 percent of the part-time students at the University are women, 45 percent of whom are over the age of 25. In her brief to the commission, Benschop outlined a number of suggestions for improving the conditions for these part-time students.

She suggested that some sections of the multi-section labs be rescheduled to 9 am to noon, 11 am to 2 pm, or 1 to 4 pm, and a portion of the registration for these sections be held open for part-time students, thus making the labs more accessible.

She said there should be more classes held on Saturdays and that the University make a certain percentage—perhaps 35 percent—of internal awards to part-time students to offset the difficulties they have in obtaining grants and awards for graduate studies. Furthermore, she said, the granting agencies should be encouraged by the University to do the same.

Benschop said the same could apply to securing student loans.

Another of her suggestions was that the residency requirements of the University be examined and made more flexible to accommodate part-time students.

"Encouraging part-time graduate students, or providing awards to previously part-time students will help to fill the shortage of PhDs predicted for the year 2,000, Benschop said."

She also noted that the federal government does not allow income tax deductions for tuition fees or attendance for part-time students. There could be a prorated deduction allowed for part-time students, which would encourage more Canadians to improve their education through part-time studies, she explained.

She added that the problems of part-time employees of the University, many of whom are women, are similar to those of part-time students. She suggested that NASA include regular, part-time employees in their union and bargain on their behalf. Part-time employees whose appointment is for more than four consecutive months should be eligible for a prorated, optional benefit package, Benschop told the commission. □

## Health Services Administration program lauded as model for teaching equality

The President of the Health Services Administration Students' Association believes that the Health Services Administration program may serve as a useful model for the promotion of equality and respect on campus.

Addressing the President's Commission for Equality and Respect on Campus, 7 March, Mark Rivette said that students should receive documentation that clearly outlines an expectation of respect and equality among students.

He also suggested that students' associations should be encouraged to develop student support systems

and not simply serve as outlets for social functions.

"Faculty members should encourage students to work together and to prevent students from working in isolation. We believe that these recommendations would be of value in improving the University environment and would promote respect and equality," he told commission members.

Outlining students' experiences in the program, Rivette said, "Working together in our academic training has taught us the need to respect others' values and ideas and the importance of treating each other as equals." □

## International feminist studies conference to take place on campus in early April

"Imag(in)ing Women: Representations of Women in Culture," an international feminist studies conference, will be held on this campus from Thursday, 5 April, to Saturday, 7 April.

The speakers at the conference are from several disciplines and include Catharine Stimpson of Rutgers University, currently President of the Modern Languages Association of America; Linda Hutcheon, Professor of English and Comparative Literature at the University of Toronto; Nicole Dubreuil-Blondin, Professor of Art History at the University of Montreal; and Isobel Grundy, Professor of English at the University of London and Tory Professor-elect at this University.

An art exhibition titled

"Dangerous Goods: Feminist Visual Arts Practices," is being held concurrent with the conference at the Edmonton Art Gallery. The conference will also include a poetry reading by Canadian women writers.

The conference will be held at Lister Hall. The full conference registration fee, including the closing banquet, is \$95 (\$60 for students). Registration without the banquet is \$15 less; passes for each day are also available. Registration fees will be 20 percent higher after 25 March.

To register or for further information, contact the conference secretary: Glennis Stephenson, English Department, University of Alberta, 492-7831. □

## Office of Human Rights

*Continued from page two*

"Although we would prefer to see these two areas remain separate, we realize that the present economic climate is not conducive to such a suggestion. We agree, therefore, that it is possible to combine the areas providing that certain principles and distinct areas of responsibility are maintained," the group stated.

"We recommend that \$130,000 to \$140,000 be allotted initially for the Office of Human Rights. This would allow \$75,000 to \$85,000 for the three .5 positions (or some combination), \$35,000 for a full-time Administrative Assistant/Researcher, and \$20,000 for the Office itself."

The proposal was presented by Dr Hall (Physical Education and Sport Studies); Margaret Ann Armour (WISEST); Marilyn Assheton-Smith (Women's Research Centre); Doris Badir (Equity Advisor to the President); Susan Jackel (President, Academic Women's Association); Dianne Kieren (Associate Vice-President Academic); Pat Leginsky (Director, Women's Program and Resource Centre); Hope Olson (AAS:UA Women's Issues Committee); and Pat Prestwich (Chair, Women's Studies Committee).

They based their proposal on four principles: the need to make the University a community free of discrimination; a desire to coordinate current and proposed

programs, policies and initiatives that touch upon fundamental human rights; the need to maintain and develop the sexual harassment program and to give more attention to the employment equity area; and to formalize these two areas more fully and to draw upon existing resources and structures within the University.

There will be more commission coverage in next week's *Folio*. □

## Schein gets funding from Statistics Canada

Statistics Canada is supporting Jerome Schein, holder of the David Peikoff Chair of Deafness Studies, in his preparation of a report about the hearing-impaired population of Canada.

The data are drawn from the 1986 Canadian Census of the Population and the 1986-87 follow-up study of persons with disabilities, Health and Activities Limitations Survey (HALS). "Together, these data will provide the most up-to-date information about hearing impairment in Canada, Professor Schein says.

HALS surveyed more than 180,000 people in two steps and 1,100 institutions housing 19,100 people.

Professor Schein expects to complete the analysis of the data and writing of the ensuing monograph in April. □

## Mustapha elected Students' Union President

Approximately 7,000 undergraduate students voted in the annual general elections for student leadership at the University of Alberta. The new executive that emerged from the 7 and 8 March voting consists of: Suresh Mustapha, President; Jason Forth, Vice-President Academic; Sean Kennedy, Vice-President External; Michael Aherne, Vice-President Finance and Administration; and Marc Dumouchel, Vice-President Internal.

Karrin Powys-Lybbe was elected as the student representative to the Board of Governors. □



**Gym dandy:** Lily Tokaryk (left) and Kathe Bosch have every reason to beam. Fitness Canada has cited Tokaryk as an "outstanding participant and role model" and Bosch as an "outstanding coach." Here, they take a respite from the U of A's workout (the group is preparing for a series of performances it will give in conjunction with the conference, "Aging Into the 21st Century," to be held in Ottawa next month). Tokaryk, who is 78, favors the uneven and parallel bars and floor exercises. Bosch, 56, and Sandy O'Brien founded the U of A's club four years ago. Bosch also coaches for the Edmonton Gymnastics Club.

Public Affairs

## Naomi Black's recent work seeks to challenge stereotypes

Women as a whole tend to be considered not very good at politics, are often labelled as apolitical, and are considered reactionary, says a York University Political Science professor. And that stereotype still exists, Naomi Black says.

In "What Do Politics Mean to Women?", the last of three speeches she made on campus recently, Dr Black outlined her recent research for a Women's Studies class.

Her study, conducted with historian Gail Grant, speaks to those stereotypes. The research involves 400 farm women, 200 in the Valleyfield area of Quebec and 200 in the Bordeaux region of France. The farm women were picked because they were supposed to best exemplify these stereotypes. All of them were given 112 questions that related to their political attitudes.

According to Dr Black, nearly all of the women sampled voted, most of them listened to television and radio news and the study uncovered some evidence to suggest that voting was taken very seriously by the farm women.

Dr Black, who qualified her remarks by stressing that the findings were all preliminary and were not yet thoroughly analyzed, said there was evidence to indicate

that the women surveyed showed a "surprising willingness to get involved in pressure politics." More than 90 percent believed it would be perfectly normal to have a female prime minister or president, she said. Almost all of the women sampled disagreed with the contention that politics should be left to men and a significant number of these women believed that politics would be improved if more women were involved. Furthermore, if more women were involved, the issues of concern to women would be dealt with, many said.

She said the respondents often linked politics with the running of the country and they emphasized finance. There were not a lot of partisan comments and there was a focus on policies, Dr Black said. A hostile group also emerged and characterized those in government as "liars, mafia, talkers" and "profiteers."

Dr Black said, They don't sound to me, and they probably don't sound to you, like the sort who are either reactionary or apathetic and under the thumb of somebody else . . . images that we usually get of women and politics.

"We can see a pattern of response to these standard questions, amplified by our not-so-standard questions, of

understanding actions and attitudes that hang together. And if we accept these issues defined by women related to their needs and situations are at least potentially public politics, we have to say that these women—even in conventional political terms—are political."

Dr Black said the rural women know they have this conservative reputation and they resent the way urban feminists treat them.

Dr Black's visit was sponsored by the Centre for Constitutional Studies and the Departments of Anthropology, Sociology and Political Science. □

### PUBLIC LECTURE

### *The Centre for Constitutional Studies*

of the University of Alberta

invites you to attend the

### McDONALD CONSTITUTIONAL LECTURE

### "The Possibility of Interpretive Liberalism"

delivered by

### MARK V. TUSHNET

Professor of Law

Georgetown University, Washington, D.C.

8:00 p.m. Thursday, March 22, 1990

237 Law Centre, University of Alberta

R.S.V.P. – Acceptances Only

Christine Urquhart 492-5681



## Community drama in Ghana creative force for social development

Malaria, famine, poverty and diarrhea are problems few Canadians ever have to confront. But for the people of Ghana, these problems are all too real. And who's to deal with these problems? The doctor, the CIDA worker, the local health authorities, the teachers.

But what about the dramatist? Does he or she have a role to play? According to Emmanuel Bugri Atongi, a master's student in the Drama Department, the use of community drama may be a useful tool in the fight against some of his country's afflictions.

Atongi, 42, who comes to the department from the Centre for National Culture in Ghana where he was a regional organizer for drama and literary arts, says

community drama is a creative force for education and social development.

While working in the upper regions of Ghana, Atongi was invited by CIDA officials to conduct and participate in workshops designed to use community drama as a tool for education. Plays, written by Atongi in English and translated into the various indigenous languages of the region, tackled issues such as the prevention and treatment of diarrhea, how to treat malaria and the necessity of maintaining clean water pump sites. The plays were produced for radio, as well as for the benefit of people who couldn't be readily contacted.

Atongi says the plays were very effective. "It was so marvellous and

people went back to their communities and they dramatized for their own people."

During his work on the project, CIDA officials attempted to determine Atongi's level of education. With a drama undergraduate degree from the University of Ghana, Atongi had majored in playwriting, and had had one play, "Selina," produced for television, from which he had been paid royalties.

"The CIDA official asked me why I hadn't pursued graduate work in drama and I told him that the universities didn't offer those courses." Shortly after that, Atongi was urged to apply to Canadian universities. As it turned out, the University of Alberta responded ahead of York University and,

backed by a CIDA scholarship, Atongi found himself saying goodbye to his wife, Felicity, who is a teacher, and their five children.

"It was a difficult decision," he says, but he expects the two-year program will ultimately benefit his society. And, he believes the Centre will likely offer him a position when he returns.

On his sudden transition to Canadian society, Atongi says he had not acquired warmer clothing, he "would have frozen to death." He credits Mary Blackstone (Drama) and his student colleagues for their efforts in helping him adapt—although he thinks it will take time to grow accustomed to Canadian food. □

## University involved in electronic training network research project

The Electronic Training Network (ETN), a research project that combines technology and the educational resources of seven Alberta postsecondary institutions, is expected to deliver training programs to business, government and industry.

The ETN will use audiographic teleconferencing which allows for the transmission of voice, data and still visuals through the use of computer and telecommunications

technology. In effect, the monitor can be used as an electronic blackboard.

According to Walter Archer (Extension), who is the coordinator for the University of Alberta's involvement, courses will be given by the member institutions and delivered by the technology to the other sites. The project is coordinated by the Canadian Distance Learning Development Centre (CDLDC) and will be

evaluated on the basis of the effectiveness of the technology for distance education. CDLDC also wants to evaluate the effectiveness of this kind of consortium, Dr Archer explained.

"It's a new venture for the institutions and we don't quite know exactly how to go about this yet, so we'll all learn a great deal from this experience," he said, adding that they already know that rural educational consortiums in the province work quite well.

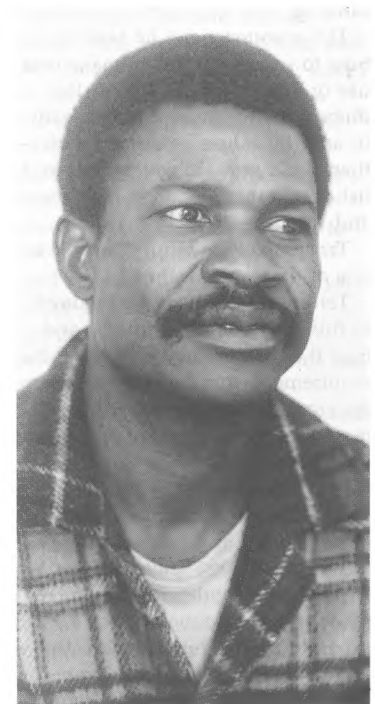
"Certainly, if the consortium is to continue, we'll need some modifications—we already know that, based on our experience to date," Dr Archer said.

The long-range objective of the project is to reduce costs and result in the reduction of course duplication by the various institutions. Dr Archer said the \$640,000 cost is almost totally borne by CDLDC and the only cost to the University was the initial \$18,000 for the purchase of the equipment.

The other participating institutions are: Grant MacEwan Community College, Lethbridge Community College, Mount Royal College, Northern Alberta Institute of Technology, Red Deer College and Southern Alberta Institute of Technology. □



Ron Kinney (Extension) works with the audiographic teleconferencing equipment



Emmanuel Atongi

## Can you afford to lose your bicycle?

With the coming of spring, bicycle usage increases on campus and so does larceny. As Campus Security points out, it takes only moments to cut a cable or chain lock. People who bike to and from campus are urged to buy a more secure U-shape lock.

Anyone who observes any suspicious activity is asked to call Campus Security (24 hour service) at 492-5252. □

## Getting the best from our forests

*There are a lot of different values to weigh*

The right to harvest trees on Canada's forest land (94 percent of which is publicly owned) is turned over to industry by government in agreements called "tenures", which specify what the user is to do with the land once the timber has been harvested.

Originally, tenures were designed around the removal of timber, and timber values were the only concern.

"Today it's much more complex. There are multiple values that have to be considered," says University of Alberta forest economist Martin Luckert, who recently completed a cross-Canada study of reforestation funding.

The question now, he says, is how to set up tenures to make best use of these multiple values: the timber, the forest land underneath it, and the values associated with them—old growth, watersheds and fisheries, range, wildlife, recreation and wilderness.

Traditionally, a tenure has taken one of three approaches.

Tenure holders may be required to fulfill certain requirements and bear the cost; or they may fulfill the requirements and be reimbursed by government; or government itself may decide on, carry out and pay for whatever measures best fit society's needs.

"But there's a lot of room for improvement in the structuring of these agreements," says Dr Luckert. Regulations may force tenure holders to make expenditures on reforestation. But there's a serious problem if the land quality is such that the tenure holders will not derive future benefits from their investment. "If you are not spending money for the future, what are you spending it for?" Luckert asks.

"Future considerations should be connected to expenditures. Where there's a connection between expenditures and benefits, you get money spent in much better places."

To the extent that private interests coincide with public interests, "let's let them go to it," he says. "But we've got to figure out a tenure system to constrain tenure holders where private interests don't further public interests." Looking at forest tenures

in terms of economic incentive frameworks has just begun, and Luckert's research is aimed at reconciling the two sets of interests.

"We're looking for common ground between government and industry and a way to structure tenures for more than one value. I'm optimistic that there's a lot of room for beneficial change," he says hopefully.

Dr Luckert's research has been supported by Forestry Economic and Policy Analysis Unit, Forestry Canada, and several forest companies.\*□

## How did you work that out?

*Even when the answer is right, the process may be wrong*

What kind of thought process is going on when a grade four student can multiply  $48 \times 2$  and get the right answer but be wildly wrong when multiplying  $19 \times 5$ ?

That's the sort of question that intrigues University of Alberta developmental psychologist Jeffrey Bisanz, who is curious about the processes that children (and adults) use to work out arithmetic problems. Do they use an understanding of the underlying principles that govern addition, subtraction, multiplication and division to solve the problem? Do they laboriously work out every calculation step by step, never seeing the obvious short cuts? Or do their problem-solving processes contain 'bugs' that result in the wrong answer?

"When we try to improve children's skills in anything school-related," Bisanz says, "we typically look at achievement test scores and grades to see how well the child is doing."

But achievement test scores don't reflect the kinds of processes the child has used to solve problems, he points out. While it may be useful for a teacher to know a particular child has done poorly in math in the past, it would be much

more helpful to know why the child is doing poorly: is the child using incorrect strategies, or do they lack certain knowledge?

"What we are trying to do is develop ways to pinpoint exactly what a child is doing, what kind of mental steps the child is going through to solve a problem," he says.

In the examples above, for instance, it was discovered that the child was using a 'rule' that said "multiplier  $\times$  the first digit, carry the tens; then multiplier  $\times$  whichever is greater, the second digit or the carried number, then add the smaller number". It's a strategy that happens to yield the correct answer for  $48 \times 2$ ; but it doesn't work for  $19 \times 5$  ( $9 \times 5 = 45$ ; write down 5, carry 4; 4 is greater than 1, so  $4 \times 5 = 20$ , then add 1 to make 21; total 215).

"The child didn't understand the idea of multiplication. She could get the right answer—but for the wrong reasons."

"In the assignment we looked at, 80 percent of the problems were of the ' $48 \times 2$ ' type, where she could get them right using her wrong algorithm (procedure). In fact, using the wrong algorithm on all the problems, she was getting

80 percent correct—not a bad average.

"This convinces me it's important to understand the process by which children get the answers—how they actually solve problems," Bisanz says. Long term, this understanding will help improve the design of curricula to help children understand arithmetic, he points out, as well as improving our understanding of how thinking processes evolve. Further, he adds, specific knowledge about thinking and problem solving processes, will illuminate the continuing debate among educators as to whether memorizing (of multiplication tables, for instance) is the best way of learning math, or whether a learner gets a better grasp on the subject by first acquiring an understanding of the basic principles governing it. "Mathematical understanding and performance are aspects of literacy," he points out.

Dr Bisanz's research is supported by the Natural Sciences and Engineering Research Council.\*□

*\*Stories reprinted from Research Report, published quarterly by the Office of Public Affairs*

## PRESIDENT'S COMMISSION FOR

## EQUALITY AND RESPECT ON CAMPUS

Public Hearings will be held on the following days:

DATE	TIME	PLACE
March 19	2:30 - 4:00	Civil-Electrical Engineering Building, Room 251
March 28	2:30 - 4:30	Education South, Room 165
March 29	9:30-12:00	Dentistry-Pharmacy Building, Room 5074
March 30	9:00-12:00	Business Building, Stollery Centre (Room 504)
April 10	10:00-12:00	Tory Building, Room 38 (Basement)

All interested persons are invited to attend.

For more information, please call Mrs Karen Moodie, Executive Assistant to the Vice-President (Academic), 492-4957. The schedule of presenters is available from the Office of Public Affairs.



University of Alberta

## Kaplan Award winner a household name in reinforced concrete design

What a nice feeling it must be to reach down a hefty book from the shelf and see your name after the "By." Thoughts of the respected house that published it, wide distribution, and the knowledge that students are learning from its text and illustrations could cause a person to put their feet up and relax. But when the author, in this case Jim MacGregor (Civil Engineering), is also a leading researcher, teacher, and administrator, it's not easy to find the time to do so.

Dr. MacGregor is well pleased with *Reinforced Concrete: Mechanics and Design*, published by Prentice-Hall in 1987. Oh, his wife kids him every now and then that if he had done some "real work" the 784-page volume could have been the size of the city telephone book. And, he says with only a trace of chagrin, the book is practically unheard of in Canada because it's in foot and pound units. (Prentice-Hall indicated that if the book sold well in the United States, a Canadian edition would follow. The first part has happened—1989 adoptions include the University of California at Berkeley, Georgia Institute of Technology, University of Illinois at Urbana, Purdue University, Michigan State University, Ohio State University, and Texas A&M University—but not yet the second.) Actually, *Reinforced Concrete: Mechanics and Design* is used to a degree by U of A graduate students but not by undergraduates.

Folio isn't sure what the cover note on Dr MacGregor says but if it's updated for that elusive Canadian edition, it could proclaim that he received the University of Alberta's 1990 J Gordin Kaplan Award for Excellence in Research. Another credit worthy of mention is his stewardship of the University Node in the Network of Centres of Excellence Program. But first things first. On 29 March (8 pm, 2-115 Education North), Dr MacGregor and Brendan Rule (Psychology) will discuss the nature of their respective research endeavors and be presented with the Kaplan Research Award. On this august occasion, Dr MacGregor, like the other Kaplan laureates, has to be technical but not overly so because most of his listeners will be lay



Jim MacGregor, Chair of the Department of Civil Engineering, divides his time between the Structures Lab, the classroom and his office.

people. For inspiration and, perhaps, a measure of assistance, he's removed another book—*Vitruvius on Architecture*—from the shelf. The title of Dr MacGregor's Kaplan Award lecture—"Strength, Utility and Grace - the Art and Science of Structural Engineering"—is taken from Vitruvius Pollio's writings. (The Roman architect, engineer, and author produced the first major set of books on building design.) But Dr MacGregor's talk won't be wholly historical.

A portion of it will be devoted to research projects Dr MacGregor has carried out during his years at the University of Alberta and the effects these projects have had on structures.

Jim MacGregor came to the University of Alberta from his hometown of Calgary to study civil engineering. He graduated with Distinction in 1956 and then attended the University of Illinois, Urbana, earning MS and PhD degrees. For nearly 30 years he has been a professional engineer

specializing in reinforced concrete design. His researches have had to do with Edmonton, for example, on shear strengths of deep beams (beams on a lower floor of a building that take the loads from the upper reaches and spread them down to the ground), Canada and other nations (he's long been involved in the development of codes for structural design and reinforced concrete design for Canada, the United States and Europe).

### Network of Centres of Excellence

Of late, Dr MacGregor is spearheading the University of Alberta Node in the Network of Centres of Excellence on High Performance Concrete. Eleven researchers, seven universities, and two consulting firms will join forces for the purpose of developing a "new generation of cement-based materials." The project, based at the University of Sherbrooke, has a four-year budget of \$6,400,00, of which \$630,000 will be directed to the U of A. The word "will" is used because, Dr MacGregor says, before any funding flows, the agreement with all the research parties and the consulting firms has to be finalized.

Concrete is the most widely used construction material in Alberta and Canada, but high performance concrete is in another league. It's more durable than conventional concrete and has strengths from two to six times greater. What Dr MacGregor and his associates will try to come up with is design rules for using this material.

Dr MacGregor is also carrying out work on the strength of a number of buildings throughout Canada that are in need of renovation. This bears some resemblance to an earlier project regarding the strength of bridges in Alberta. This had to do with the fact that weights for trucks and their loads used to hover around the 72-ton mark. In the near future, behemoths carrying much heavier loads will be commonplace on Alberta's roadways. Drs MacGregor and DJ Kennedy (Civil Engineering) produced a systemized way of checking each bridge to see whether it had the strength to take the heavier loads. □

Next week: Brendan Rule



# International Week: CIDA official defends Canada's role in promoting justice

According to a CIDA official, Canada's international development policy supports global justice.

At the opening plenary discussion for the 5th Annual International Week, this year titled "Building Global Justice," Aubrey Morantz said although it is impossible to isolate the impact of Canadian development assistance, there is strong evidence to suggest that progress is being made.

The Director General of Institutional Cooperation and Development Services Division of CIDA said there is still a strong humanitarian element to Canada's development assistance programs and the alleviation of poverty remains the primary focus of assistance.

He argued that 75 percent of bilateral aid is directed to the lower income states and fully 45 percent of the government to government aid is directed to Africa. If economic ties were a primary

reason for extending Canadian aid, he said, why then is Canada giving so much of its aid money to Africa, which only accounts for about one to two percent of Canadian trade?

CIDA funding, which amounts to approximately \$2.5 billion per year in development assistance, was cut last year by \$320 million. This year the budget will likely rise by about five percent, reflecting the mood of the country, Morantz said.

Morantz said if that aid is to have some lasting impact on the recipient nations' ability to combat poverty, those countries must have sound fiscal policies. International Monetary Fund and World Bank policies do involve belt-tightening, he acknowledged, but in the long run are necessary to create sound economies.

In his response to the Morantz speech, Fred Judson (Political Science) said it is true that External Affairs and CIDA have learned some things over the years. He cited the environment,

empowerment, the recent emphasis on women in development and the use of nongovernment organizations as areas in which definite progress has been made since the 1960s.

But Dr Judson pointed out that "capitalism is not delivering the goods to the global poor." In absolute and relative terms, poverty around the globe is increasing and there is an increasing concentration of wealth into fewer and fewer hands.

He said Canada's per capita aid to the poorer nations is no where near what Sweden or Cuba spends. He said Canadians say they are ecologically conscious and give advice to countries such as Brazil and Costa Rica, but at the same time, Canadians consume fast food beef from the deforested areas. Also, Canadians continue to employ clear cutting forest techniques in their own country.

He questioned whether Canadians would be willing to consider a diminishment of their share of the world's wealth in an effort to right the tremendous imbalances.

Morantz said if there was a better way of allocating resources than the market he has yet to hear of one. He said that it is wrong to say that Canada's aid policies are based on a neoconservative agenda. "It really has nothing to do with ideological considerations."

Dr Judson said it may be true that humanitarianism figures largely in Canada's relations with the Third World, but that's the case "as long as we get ours first." □

## SSHRC's new Research Grant forms now due in June

The arrival of the Social Sciences and Humanities Research Council's (SSHRC) new Research Grant application forms and guidelines has been changed from March 1990 to June 1990. All researchers interested in receiving a copy of the new Research Grant application forms and guidelines may have their names placed on a waiting list at the Office of Research Services by calling 492-5360. Alternatively, researchers may contact ORS in June. □

## CURRENTS



### Professional Development for APOs, information session

Pat Warmington and her colleagues from the Development Office will discuss the topic "Fund Development and the University—All the Facts and More." They will give an "Overview of the Development Office and Development Programs" and talk on "Making a Donation," "Data," the "President's Council and Creative Giving," and "Project Leadership Dialogue." A question and answer period will conclude the session.

Date: 20 March. Time: 10:30 am to noon. Place: Heritage Lounge, Athabasca Hall.

There is no registration fee, but those interested in attending are asked to register by calling Gail Bamber at 492-2796.

While these sessions are directed at APOs, other interested staff are welcome.

### Women's Research Centre

On 20 March at 7:30 pm, Monica Zurita, Adrienne Wiebe, and Duane Burton will discuss their research for "Project Soledad," a community-based project addressing the issue of wife abuse in the Latin American community. The Centre is at 11043 90 Avenue.

### Book sale

Location: Norma Freifield Reserve Reading Room, 1-24 Cameron Library. Dates: Wednesday, 21 March, and Thursday, 22 March. Time: 9 am to 4 pm.

### An invitation . . .

The University of Alberta Education Alumni Association invites you to attend the annual banquet and social, "An Evening with Dr Paul Davenport."

This event will take place 5 April at the Westin Hotel (Marlboro Room), Edmonton. Cocktails: 6:30 pm. Dinner: 7 pm. \$30 per person.

RSVP to Barbara Chaffey, Alumni Affairs, 492-4523, by 30 March.

### Bookstore's annual inventory

The University Bookstore will be closed for year-end inventory 29, 30 and 31 March. The doors swing open again on 2 April.

### Personal/professional development

Over the next few weeks the Faculty of Extension will offer workshops ranging from "This Kid is Driving Me Crazy" to "Job-Search Techniques." For information or brochure, call 492-5069.

## ACTIVITIES

The Board of Governors has confirmed that the proposed building which will house the Drama Department's theatre operations will be named the Timms Centre for the Arts, in honor of the late Albert William Timms . . . Inge Brown (APO, Nursing) has been selected to participate in the 1990 University Management Course. The course is cosponsored by the Canadian Association of University Business Officers, the Association of Universities and Colleges of Canada, and the Centre for Higher Education Research and Development at the University of Manitoba. It will be held 8 to 16 June in Banff . . . Ming Rao (Chemical Engineering) was invited to address the Department of Electrical and Computer Engineering, University of Waterloo, and the Department of Electrical Engineering, University of Toronto. His talks were titled "Integration Approach to Intelligent Control" (Waterloo, 1 February) and "Intelligent Control: Architectures, Implementation, and Applications" (Toronto, 2 February) . . . *Playing Dead: A Contemplation Concerning the Arctic* by Rudy Wiebe (English) is a finalist in the Second Annual Alberta Book Industry Awards. The book is in the category Alberta Book of the Year. *The Prowler* by Kristjana Gunnars (Writer in Residence) will be considered for two awards, Alberta Book of the Year and Alberta Book Design Award. The awards reception goes 22 March in Edmonton . . . Harry Wohlfarth (Professor Emeritus, Extension) has been invited to give a paper on "The Present State of Research in Colorpsychodynamics" at the Annual Conference on Light and Vision sponsored by the College of Syntonic Optometry in Houston, Texas, 26 to 29 April.



# Folio

## Display Advertising

*Folio* is the official news publication of the University of Alberta, published every Thursday throughout the academic year; published biweekly during the summer. It has a regular distribution of 9,200 of which 8,500 copies are circulated to teaching and support staff, to graduate students and to other interested people on campus. The remaining copies are sent to provincial and municipal government personnel, news outlets, and businesses and people off-campus.

## Sizes and rates

The basic unit size in 11 picas x 23 picas (3 13/16 x 1 13/16). The full page is divided into 10 such units, any combination of which is available at a cost of \$40 per unit (minimum 1 unit). Half page cost: \$200. One column cost \$100. There is a 25% discount for University departments. A 10% discount is offered for five or more consecutive insertions.

## Other Specifications

Half-tones (100-line screen or less) are acceptable; no color or bleeds; Camera ready copy is necessary; there is a charge of 35c per word for typesetting, and \$7.50 for adjustment of design work.

## Deadlines

Deadline for submission is 3 p.m. one week in advance of desired publication date. Acceptance of advertisements and positioning are at the discretion of the Editor. For more information, telephone (403) 492-2325 and ask about *Folio* display advertising, or write to:  
*Folio* Display Advertising  
Office of Public Affairs  
423 Athabasca Hall  
University of Alberta  
Edmonton, Alberta T6G 2E8

## EVENTS



## Talks

### St Joseph's College

15 March, 1 pm Kevin O'Rourke, director, Center for Health Care Ethics, St Louis University, "How Much Should the Patient Be Told? Do We Have the Right to Choose our Own Medical Treatment?" Bernard Snell Hall, Mackenzie Health Sciences Centre.  
22 March, 3 pm Jewish-Christian Dialogue—Ehud Ben Zvi, "Biblical Studies, and the Jewish-Christian Dialogue." Faculty Lounge, St Joseph's College.

### Chemical Engineering

15 March, 3 pm Murray R Gray, "Chemical Kinetics of Complex Mixtures and Characterization of Spent Catalysts by NMR." E342 Chemical-Mineral Engineering Building.  
22 March, 3 pm Jacob Masliyah, "Separation of a Bi-disperse Suspensions." E342 Chemical-Mineral Engineering Building.  
29 March, 3 pm Vladimir Hornof, Department of Chemical Engineering, University of Ottawa, "Dynamic Interfacial Tensions Between Acidic Oils and Alkaline Solutions." E342 Chemical-Mineral Engineering Building.

### Anthropology

15 March, 3:30 pm Robin Riddington, University of British Columbia, "Constructing and Ethnographic Narrative: Actualities and Textualities." 14-6 Tory Building.  
27 March, 3:30 pm Ellen Bielawski, "Comparing Science in the North and Inuit Indigenous Knowledge: Research in Progress Towards a Cross-Cultural Epistemology." 14-6 Tory Building.

### Music

15 March, 3:30 pm Curt Veeneman, "Hammers, Primes, and Riddles: Means to Compositional Isomorphism." 2-32 Fine Arts Building.  
29 March, 3:30 pm Wesley Berg, "New Insights into the Music of the Old Colony Mennonites." 2-32 Fine Arts Building.

### Entomology

15 March, 4 pm Nidia Moreno, "Host Location and Selection by Females of *Tiphodytes Gerrhiphagus* (Hymenoptera: Scelionidae) on Eggs of Water Striders." TBW-1 Tory Breezeway.  
22 March, 4 pm Dean Mulyk, "Electrophoretic Examination of Some Members of the *Saldula Pallipes*-*Palustris* Species Complex (Hemiptera, Saldidae)." TBW-1 Tory Breezeway.  
29 March, 4 pm Karl Maramorosch, RL Starkey Professor of Microbiology, and Professor of Entomology, Wakey Institute of Microbiology, Rutgers

University, New Brunswick, New Jersey, "The Origin of Basic and Applied Discoveries." TBW-1 Tory Breezeway. Cosponsor: Plant Science.

### Alberta Heritage Foundation for Medical Research

15 March, 4 pm Sam Solomon, Departments of Biochemistry and Experimental Medicine, McGill University, "Isolation and Biological Activity of Cysteine-Rich, Arginine-Rich Peptides." 207 Heritage Medical Research Centre.  
20 March, 4 pm Phyllis A Lu Valle, postdoctoral fellow, Department of Anatomy and Cellular Biology, Harvard Medical School, "Type X Collagen: A Marker for the Developmental Transition from Cartilage to Bone." 5-10 Medical Sciences Building. Presented by Anatomy and Cell Biology.

### Botany and Geography

15 March, 4 pm Bill Freedman, Department of Biology, Dalhousie University, "Secondary Succession After Clearcutting Hardwood Forest in Nova Scotia." M-149 Biological Sciences Centre.

### Women's Studies Program

15 March, 7:30 pm Kathleen Okruhlik, University of Western Ontario, "Philosophical Feminism: Challenges to Science." L-2 Humanities Centre.  
29 March, 3:30 pm Susan Jackel, "On the Same Basis as Men: Women and Jury Service." Senate Chamber, Arts Building.

### Plant Science

16 March, 12:30 pm P Dale, "Site Specific Recombination: A Mechanism for Genetic Control." 1-06 Agriculture-Forestry Centre.  
20 March, 12:30 pm J Owouche, "Effect of Rht Genes on Yield and Agronomic Characters of Wheat." 1-06 Agriculture-Forestry Centre.  
23 March, 12:30 pm Jiang Chao, "Enhancers and Trans-Acting Factors." 1-06 Agriculture-Forestry Centre.  
30 March, 12:30 pm D McArthur, "Ionic Channels in Plants." 1-06 Agriculture-Forestry Centre.

### East Asian Languages and Literatures

16 March, 2:30 pm The Fifth Annual Japanese Speech Contest. Sponsored by the Consulate-General of Japan in Edmonton and the Japan Foundation, Tokyo. 237 Law Centre.  
30 March, 3 pm John CY Wang, Stanford University, "'Redundancy' as an Artistic Device in *Dream of the Red Chamber*." B-05 Business Building.

### Economics

16 March, 3 pm Jean-Marie Defour, University of Montreal, "Bounds Methods in Econometrics." 8-22 Tory Building.

### Club IDC

16 March, 3:30 pm Panel discussion with Kazim Bacchus, Emilio Mignone, and Carlos Torres, "Basic Education for All: Good or Evil?" 5-180 Education North.

## Zoology

16 March, 3:30 pm Malcolm Steinberg, Department of Biology, Princeton University, "Cell-to-Cell Contact Mechanisms in Development." M-149 Biological Sciences Centre.  
23 March, 3:30 pm S Thompson, Hopkins Marine Station, Stanford University, "Mechanisms of Calcium Oscillation in Neurons and Macrophage." M-149 Biological Sciences Centre.  
30 March, 3:30 pm Greg Matlashewski, Institute of Parasitology, McGill University, "Molecular Aspects of Human Papillomavirus Induced Neoplasia."

## Philosophy

16 March, 3:45 pm Kathleen Okruhlik, University of Western Ontario, "Birth of a New Physics or Death of Nature." 4-29 Humanities Centre.  
23 March, 3 pm Kim Sterelny, Victoria University, New Zealand, "Confessions of a Causal Theorist." 4-29 Humanities Centre.

## Genetics

16 March, 4 pm Laura Frost, "Bugs in Love: Control of Fertility in *E. Coli*." G-116 Biological Sciences Centre.  
30 March, 2 pm Bikram S Gill, Department of Plant Pathology, Wheat Genetics Resource Center, Kansas State University, Manhattan, Kansas, "Cytogenetic Analysis and Mechanisms of Genome Evolution in Polyploid Plants Using the Allopolyploid Wheat Model." G-217 Biological Sciences Centre.

## Law

17 March, 9:30 am Saturday Morning at the Law School—"Wrongful Dismissal." Information: 492-3115. Law Centre.

## Canadian Mediterranean Institute

17 March, 5 pm Amanda Claridge, associate director, British School at Rome, "Romans on the Laurentine Coast, near Ostia." 2-58 Tory Building.

## Boreal Institute

19 March, noon Sabine Schweiger, "Does Food Availability Determine Overwinter Survival Rates of Red Backed Voles?" G-113 Biological Sciences Centre.  
22 March, noon John England, "Paleoenvironmental Change in the High Arctic." 3-36 Tory Building.  
26 March, noon Richard Cotter, "Mortality in an Arctic Population of Rock Ptarmigan: Is it Limiting Local Density?" G-113 Biological Sciences Centre.  
29 March, noon David Halliwell, "Prediction of Permafrost Response to Climate Change in Nonhomogenous Surface Conditions." 3-36 Tory Building.

## International Centre

19 March, noon Baha Abu-Laban, "Overcoming Discriminatory Attitudes and Behaviour." 20 March, 12:30 pm Jocelyn Muir, educational consultant, Alberta Human Rights Commission, "Discrimination in Alberta." 21 March, noon Malcolm Thomas, "International Day to Eliminate Racial Discrimination." 22 March, 12:30 pm Lorraine Sinclair, "Native Life in Northern Alberta: Cultural Genocide."

23 March, noon Maureen Werlin, Citizens Against Racism and Apartheid, "Institutionalized Discrimination: Apartheid."

26 March, noon Thomas Varughese, "Devotional Literature in Malayalam."

27 March, 12:30 pm Michael Lapsley, South African Anglican priest, "South Africa: Freedom is Coming."

28 March, noon Mariam Lynn, Jenny Colmar, Neil Payne, and Sara Broxenolme, "A Scottish View of Student's Life in Edmonton."

All events in 172 HUB International.

## Nursing

19 March, 12:10 pm Judith Hibberd, "Coping With the 1988 Strike: Experiences of UAH Nurses."

6-101 Clinical Sciences Building.

22 March, 7:30 pm Margaret A Newman, professor, School of Nursing, University of Minnesota, "The Newman Health Model: Health as an Expanding Consciousness." 2F1.04 Mackenzie Health Sciences Centre.

## Slavic and East European Studies

19 March, 3 pm Kyril Holden, "Emotive Effects of Russian Intonation in English, and of English Intonation in Russian." 436 Arts Building.

21 March, 3 pm Andras Rajki, Karl Marx University of Economic Science, Budapest, "Economic Decentralization in Hungary." 1-7 Humanities Centre.

Cosponsors: Economics and Political Science.

22 March, 7 pm Dr Rajki, "Hungary's Future: Freedom Means Responsibility."

2-5 Business Building. Cosponsors: Economics, Political Science, and the Corvin History Society.

26 March, 3 pm David Matthews, "Grammatical Tools for Foregrounding/ Backgrounding in Old East Slavic: The Galician-Volynian Chronicle." 436 Arts Building.

## Rural Economy

19 March, 3:15 pm Adrienne Kisko, "Implications of Client Learning Style for Extension Education." 519 General Services Building.

23 March, 1:30 pm Elizabeth Wilman, Department of Economics, University of Calgary, "User Fees and Non-Timber Values." 519 General Services Building.

23 March, 3 pm Michael D Bowes, Resources for the Future, Washington, DC, "Timber and Non-timber Values in Forest Management." 519 General Services Building.

## Geology

20 March, 11 am John Percival, HS Robinson Distinguished Lecturer for the Geological Association of Canada, "Archean Evolution from Three-Dimensional Crustal Exposures." 1-04 Earth Sciences Building.

## English

20 March, 2 pm Catharine Stimpson, Rutgers University, "On Feminist Scholars and Scholarship."

306 Education South.

21 March, 11 am Dr Stimpson, "How Did Feminist Theory Get This Way?"

L-2 Humanities Centre.

26 March, 4 pm Dr Stimpson, "Gertrude Stein and Politics." L-3 Humanities Centre.

27 March, 3:30 pm Dr Stimpson, "Sexual Politics and Feminist Criticism." Senate Chamber, Arts Building.

## Extension

20 March, 6:30 pm Gordon Selman, University of British Columbia, "Canadian Comparisons in Adult Education." Teleconference at Athabasca University, 2nd Floor, 9942 108 Street. Information: Denis Haughey, 492-5055.

## Women's Research Centre

20 March, 7:30 pm Monica Zurita, Adrienne Wiebe, and Duane Burton, will discuss their research for "Project Soledad," a community-based project addressing the issue of wife abuse in the Latin American community. 11043 90 Avenue.

## School of Native Studies

21 March, 1 pm H Christoph Wolfart, Department of Linguistics, University of Manitoba, "Texts and Textbooks for Cree Language Students." 129 Education South.

## Limnology and Fisheries Discussion Group

22 March, 12:30 pm Debbie Webb, "The Relationship Between Phytoplankton Dynamics, Oxygenation, Nutrients, Temperature and Light in Amisk Lake." M-149 Biological Sciences Centre.

29 March, 12:30 pm Wolfgang Jansen, "Incidence and Intensity of Infestation and Distribution of Glochidia of *Anodonta Grandis Simpsoniana* on Yellow Perch (*Perca Flavesces*)." M-149 Biological Sciences Centre.

## Soil Science

22 March, 12:30 pm Wayne Tedder, "Grazing Potential of Alberta Peatlands." 2-36 Earth Sciences Building.

## English, Romance Languages, and Women's Studies

22 March, 2:30 pm Nicole Brossard, "Essay(s) on Feminist Writing: Reading and Discussion." L-3 Humanities Centre.

## Agricultural Engineering

22 March, 3 pm Ismail Erdebil, "Testing Humidity Sensors for Animal Environments." 1-30 Agriculture-Forestry Centre.

## Classics

22 March, 3:30 pm Krysia Spirydowicz, assistant professor, Art Conservation Program, Queen's University, "Field Conservation Techniques in Italian Archaeology." 1-8 Humanities Centre.

29 March, 3:30 pm John Wilson, "The Negative Rhetoric of Achilles in the *Iliad*." 1-8 Humanities Centre.

## Art and Design

22 March, 5 pm Douglas Bentham from Saskatoon will give an illustrated public lecture on his sculpture. 2-20 Fine Arts Building.

## Faculté Saint-Jean

22 March, 7:30 pm Lecture de textes de Nicole Brossard. La période de questions sera suivie d'une réception. Bienvenue

à tous. Faculté Saint-Jean, Salon des Professeurs.

## Centre for Criminological Research

22 March, 7:30 pm Malcolm W Klein, director, Center for Research on Crime and Social Control, University of Southern California, "Street Gangs and Drug Distribution: Making the Connection." L-1 Humanities Centre.

## Centre for Constitutional Studies

22 March, 8 pm Mark V Tushnet, professor of law, Georgetown University, "The Possibility of Interpretive Liberalism." 237 Law Centre.

## Physics

23 March, 2 pm Sol Sheinin, "Electron Microscopy and Diffraction of Crystals." V-121 Physics Building.

30 March, 2 pm William Laidlaw, University of Calgary, "Percolation Theory." V-121 Physics Building.

## Romance Languages

23 March, 2 pm Québec writer Nicole Brossard will read (in French) excerpts from her recent books. 141 Arts Building.

30 March, 4 pm Massimo Ciavolella, professor of Italian, University of Toronto, "Eros and Memory in Renaissance Culture." Senate Chamber, Arts Building. Cosponsor: Italian Cultural Institute of Vancouver.

## Comparative Literature

23 March, 4 pm Nazrin Rahimaieh, "Iranian Writers in Exile." L-2 Humanities Centre.

30 March, 4 pm Edward Mozejko, "A Formalist Bent: The Tradition of Modern Polish Literary Theory and Criticism." L-2 Humanities Centre.

## Religious Studies

26 March, 3 pm David Jobling, St Andrews College, Saskatoon, "A Jamesonian Approach to Psalm 72." L-2 Humanities Centre.

## Techniques in Cell and Molecular Biology

28 March, noon Peter Allen, "NMR Spectroscopy." 6-28 Medical Sciences Building. Presented by Anatomy and Cell Biology.

## Arts

28 March, 4 pm Panel discussion with Paul Hjartarson, Tony Purdy, and Bruce Stovel, "Beyond Male Faminism?" Chair: Janice Williamson. 4th Floor Lounge, Humanities Centre.

## Economics and Finance and Management Science

30 March, 3:30 pm Catherine Morrison, Tufts University, "Mark-up Behaviour in Durable and Non-Durable Canadian Manufacturing: A Production Theory Approach." 8-22 Tory Building.

## Canadian Institute of Ukrainian Studies

30 March, 7:30 pm Jars Balan, "The Visual Poem in Ukrainian Poetry." Heritage Lounge, Athabasca Hall.

## The Arts

### Exhibitions

#### Bruce Peel

#### Special Collections Library

Until further notice "Gifts of Celebration: Rare Books presented by the University Senate and the Friends of the University 1981-1989." B7 Rutherford South. Hours: Monday, 8:30 am-4:30 pm; Tuesday, Wednesday, Thursday, 8:30 am-6 pm; Friday, 8:30 am-4:30 pm; Saturday, noon-5 pm; Sunday, closed.

### FAB Gallery

Until 25 March "Typo &"—an exhibition of contemporary graphic design and typography in Czechoslovakia. 1-1 Fine Arts Building. Gallery hours: Tuesday to Friday, 10 am-5 pm; Sunday, 2-5 pm; closed Saturday and Monday.

### McMullen Gallery

Until 30 March "A Family Show", in recognition of Alberta's first Family Day, 19 February. Works by a well-known family of artists: Dorothy Knowles, William Perehudoff, Catherine Perehudoff, Rebecca Perehudoff and Carol Perehudoff, courtesy of the Edmonton Art Gallery, Woltjen-UdellGallery, Front Gallery and private collectors.

## Music

18 March, 8 pm Encounters II. Admission: \$5/adults; \$3/students and seniors.

21 March, 8 pm Symphonic Wind Ensemble—Fordyce Pier, director. Admission: \$5/adults; \$3/students and seniors.

23 March, 8 pm Collegium Musicum Concert—Marnie Giesbrecht, and Debra Ollikkala, directors. Admission: \$5/adults; \$3/students and seniors.

27 March, 8 pm Sonor Borealis—a concert of "vital, new music".

28 March, 8 pm Opera Workshop Performance—Alan Ord, director. All events in Convocation Hall.

## Films

### Germanic Languages

27 March, 7:30 pm "La Habanera" (1937). 141 Arts Building.

## Award opportunities

### Alumni Association

#### Maimie S Simpson

#### Memorial Scholarship

The University of Alberta Alumni Association offers an annual scholarship in honor of Maimie S Simpson, former Dean of Women at the University of Alberta.

The scholarship has a value of \$1,500 and will be presented to a full-time student who has attended the University of Alberta for at least the two previous years.

Criteria:

1 The applicant's contribution to campus life and to the University of Alberta

community will be the basis for selection.

2 The applicant should have a satisfactory academic standing and plan to continue studies at the University of Alberta in 1990-91.

Application forms and further information may be obtained from: Office of Alumni Affairs, 430 Athabasca Hall, University of Alberta, Edmonton, Alberta T6G 2E8.

Application deadline: 5 April 1990. The scholarship will be presented at the Annual Alumni Awards Dinner 20 September 1990.

*Note:* Previous recipients of the University of Alberta Alumni Association's 75th Anniversary and Reginald C Lister Memorial Scholarships are not eligible for this award.

### Alumni Association Reginald Charles Lister Memorial Scholarship

The University of Alberta Alumni Association has established an annual scholarship, which was awarded for the first time in 1989, in honor of Reg C Lister, who spent almost 50 years serving the University, many of them as Superintendent of Student Residences.

The scholarship has a value of \$1,500 and will be presented to a full-time student who has attended the University of Alberta for at least the two previous years.

#### Criteria:

1 Major emphasis will be placed on the applicant's contribution to campus life and to the University of Alberta community.

2 The applicant should have a satisfactory academic standing and plan to continue studies at the University of Alberta in 1990-91.

Application forms and further information may be obtained from: Office of Alumni Affairs, 430 Athabasca Hall, University of Alberta, Edmonton, Alberta T6G 2E8.

Application deadline: 5 April 1990.

The scholarship will be presented at the Annual Alumni Awards Dinner 20 September 1990.

*Note:* Previous recipients of the University of Alberta Alumni Association's 75th Anniversary and Maimie S Simpson Memorial Scholarships are not eligible for this award.

### Alumni Association 75th Anniversary Scholarship

The University of Alberta Alumni Association offers an annual scholarship in honor of the University's 75th Anniversary.

The scholarship has a value of \$1,500 and will be presented to a full-time student who has attended the University of Alberta for at least the two previous years.

#### Criteria:

1 The applicant's contribution to campus life and to the University of Alberta community will be considered.

2 The applicant should have a satisfactory academic standing and plan to continue studies at the University of Alberta in 1990-91.

Application forms and further information may be obtained from: Office of Alumni Affairs, 430 Athabasca Hall, University of Alberta, Edmonton, Alberta T6G 2E8.

Application deadline: 5 April 1990.

The scholarship will be presented at the Annual Alumni Awards Dinner 20 September 1990.

*Note:* Previous recipients of the University of Alberta Alumni Association's Maimie S Simpson and Reginald C Lister Memorial Scholarships are not eligible for this award.

### University of Manitoba Institute for the Humanities Postdoctoral Fellowship

The Institute for the Humanities at the University of Manitoba invites applications for a Postdoctoral Fellowship in 1990-91. The Fellowship will be at the level of SSHRC awards (for 1990-91, \$24,648).

Applications are invited from any doctorally qualified scholar who proposes a program of research in the humanities, including interdisciplinary projects. Both women and men are encouraged to apply. In accordance with Canadian Immigration, this advertisement is directed to Canadian citizens and permanent residents.

Proposals (not to exceed 1,500 words), a *curriculum vitae*, and three letters of reference, should be sent to: The Director, Institute for the Humanities, c/o 310 Fletcher Argue Building, University of Manitoba, Winnipeg, Manitoba R3T 2N2, by 31 March 1990.

## Positions

*The University of Alberta is committed to the principle of equity in employment.*

*In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.*

## Academic

### Director, Research Grants Office

Applications are invited from individuals with a distinguished record of scholarly research and academic administration for the position of Director, Office of Grants and Services. The successful candidate will head one of two analogous units which will be created from the current Office of Research Services, effective 1 July 1990. The position reports directly to the Vice-President (Research).

The Research Grants Office will administer all University-related research grants, conduct liaison with granting agencies, and maintain a comprehensive data base. At present, the value of annual grants exceeds \$50 million.

The Director will also be responsible for the Central Research Fund, self-funded research grants, and research-related workshops. In addition, the Director may be responsible for a number of research-support facilities, such as radiation protection, biosafety, and animal welfare.

Salary will be commensurate with qualifications and experience.

Written applications, accompanied by a résumé of qualifications and experience, and the names of three referees, should be submitted by 15 April 1990 to: Dr C Robert James, Vice-President (Research), 3-5A University Hall, University of Alberta, Edmonton, Alberta T6G 2J9.

## Support Staff

**The limited number of vacancies is a result of the current Support Staff hiring freeze effective 1 January 1990.**

*To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 492-5201. Due to publication lead time and the fact that positions are filled on an ongoing basis, these vacancies cannot be guaranteed beyond 9 March. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.*

*Positions available as of 9 March 1990.*

**The salary rates for the following position reflect adjustments in accordance with the terms for the implementation of the Pay Equity Program.**

Plant Operator (40 hours/week), Grade 7, Physical Plant - Utilities, (\$2,382-\$2,985)

**The following positions retain salary rates in accordance with the previous classification system and pay plan.**

Clerk Steno II (Part-time, Trust/Temporary to 31 March 1991), Physical Education and Sport Studies, (\$8.73/hour) (approximately 28 hours/week)

Clerk Typist II (Trust), Continuing Medical Education, (\$1,324-\$1,645)

Clerk Typist III (Trust), Medicine (Dermatology and Cutaneous Sciences), (\$1,475-\$1,853)

Clerk Steno III (Program Clerk) (Trust), Legal Resource Centre, (\$1,475-\$1,853)

Library Assistant I (Trust), Legal Resource Centre, (\$1,525-\$1,934)

Secretary (Trust/Term to 31 October 1991), Alberta Centre for Well-Being, (\$1,645-\$2,100)

Medical Steno (Trust), Medicine (Rheumatology), (\$1,645-\$2,100)

Accounts Clerk (Trust), Medicine (Practice Plan), (\$1,645-\$2,100)

Electronics Technician II (Trust), Physics, (\$2,013-\$2,600)

## Advertisements

### Accommodations available

Visiting Toronto? Bed and breakfast in our restored home, minutes to the University of Toronto and downtown. Rates from \$45. Ashleigh Heritage Home, (416) 535-4000.

Sale - University/Garneau, delightful bungalow with suite. Smartly updated, character and hardwood restored. Asking \$98,500. Ed Lastiwka, Royal LePage Realty, 437-7480, 437-4984.

Sale - Belgravia, dramatically renovated four bedroom home, deluxe oak kitchen, fireplace, hardwood, huge master bedroom, skylights, south facing backyard. \$189,900. Ed Lastiwka, Royal LePage Realty, 437-7480, 437-4984.

Rent - Bungalow, three bedrooms, extra basement bedroom and bathroom, two car heated garage. Near bus, schools, shopping, 4 1/2 km south of University. Could partially furnish. Nonsmokers preferred. 434-5933.

Rent - Fully furnished four bedroom home, Belgravia, 10/12 months beginning August. \$1,000. 436-0181 after 8 pm.

Shared accommodation - Wanted: quiet, mature, responsible, nonsmoking female to share furnished executive home near Heritage Mall. Six appliances, fireplace, double garage.

\$390, shared utilities. DD, references. Donna, 435-0845 messages.

House to Lease - Windsor Park, 8923 120 Street. \$1,850/month. Large, fully renovated, four bedrooms, 3 1/2 bathrooms, full basement, double garage. Minimum one year. References required. Rand City Realty, Jill, 449-0795.

Sublet - University area, May-August, one bedroom furnished apartment. \$350. DD. Parking. Evenings 432-0798. Sale - Riverbend/Brookside, beautifully upgraded bungalow, three bedrooms, main floor family room with fireplace, brand new kitchen sunshine ceiling, pearl grey carpets, new vinyl siding. Spencer Realty, Ann Dawrant, 436-5250.

Rent - Two storey, four bedroom family/executive home. August 1990-September 1991. Three fireplaces, triple garage, finished basement. Bears paw area. Excellent school close. Nonsmokers please. \$1,500/month. Phone (403) 437-4242.

Sale - Cedar hillside bungalow on five treed acres SW of Edmonton. Tennis court, heated inground pool, jacuzzi, sun room, three fireplaces, central air conditioning. Assumable mortgage. Asking \$189,000. 987-4977 evenings.

Sale - Immaculate, attractive, three bedroom, colonial style, two storey. Double attached garage, huge west facing lot. Very good location. Shirley Kilfoyle, Shirley Howat, 438-5100 or 435-6113, 484-1562, Royal LePage Realty.

Rent - Perfect family home, quiet crescent, Petrolia. Bungalow, five bedroom (two in basement). Nonsmokers. Beginning April or May. References. \$950 (negotiable). Phone 434-5797 after 8 pm.

Sale - By owner, Aspen Gardens, three bedroom bungalow, 1,275 square feet. Finished basement with two extra bedrooms, double garage. \$147,000. Open house, 1-4 pm, 17 and 18 March, 3912 120 Street.

Rent - University and Hospital area. Clean, newer three bedroom bi-level. Furnished, single garage, parking, patio doors to sundeck. Prefer nonsmoking. Available 1 May, 998-3988.

Sale - Architecturally designed bungalow on four acres backing ravine. 4,000 square feet of living space, triple garage, 25 minutes from University. Denise Rout, 435-6355, 436-5250, Spencer Realty.

Sale - Spotless condo close to University. Two bedrooms, living and family rooms. \$92,800. Denise Rout, 435-6355, 436-5250, Spencer Realty.

### Accommodations wanted

Professional couple require house/condo from July 1990 for one year. Willing to trade Winnipeg home or housesit. Nonsmokers. No children, pets. (204) 261-1007.

New faculty member and family require three or four bedroom house near University from July/August. Prefer two year plus lease. Nonsmokers. References. Call collect, Dr Andrew Penn, Victoria, (604) 598-6590.

Alumni couple would like unfurnished home, long lease, by 1 May. References, 987-3268.

Young respectable couple requires house to rent/housesit. Will care for plants, pets, garden. Nonsmokers. References. Prefer 1 May; June negotiable, for one year. D McManus, 439-6628, 492-5519.

